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a
WE CLAIM:

a process
1. ~~Process~~₁ for the preparation of 1-adamantane derivatives characterized by the fact that a 1-acyloxyadamantane, in which the acyl group contains 1 to 4 carbon atoms, is reacted with a receptor compound in a linear aliphatic or cycloaliphatic type solvent in the presence of concentrated sulfuric acid and at ambient temperature.

a process
2. ~~Process~~₁ according to claim 1 wherein the 1-acyloxyadamantane is 1-formyloxyadamantane, 1-acetoxyadamantane, or 1-propionyloxyadamantane.

a process
3. ~~Process~~₁ according to claim 1 wherein the linear aliphatic solvent is hexane, heptane, or octane.

a process
4. ~~Process~~₁ according to claim 3 wherein the solvent is heptane.

a process
5. ~~Process~~₁ according to claim 1 wherein the cycloaliphatic solvent is cyclopentane, cyclohexane, or cyclooctane.

a process
6. ~~Process~~₁ according to claim 1 wherein the solvent is used in a proportion of between 5 and 100 times the quantity of the 1-acyloxyadamantane.

a process
7. ~~Process~~₁ according to claim 1 wherein the concentrated sulfuric acid is used in a proportion of between 0.1:1 and 0.5:1 in relation to the quantity of 1-acyloxyadamantane.

a process
8. ~~Process~~₁ according to claim 1 wherein the receptor compound is an aromatic compound of the group consisting of

anisole, phenol, toluene, naphthalene, thiophene, or furan and their substituted derivatives.

a process
9. ~~Process~~ according to claim 7 wherein the receptor is

4-bromoanisole

4-bromophenol

4-methoxybenzoic acid

4-methoxybenzoate

methyl 2-fluoro-4-methoxybenzoate

allyl 2-fluoro-4-hydroxybenzoate

methyl 6-(4-hydroxyphenyl)-2-naphthoate

methyl 6-(4-methoxyphenyl)-2-naphthoate or

6-hydroxy-2-bromonaphthalene.

a process
10. ~~Process~~ according to claim 1 wherein the receptor compound is 4-methoxybenzene thiol.

a process
11. ~~Process~~ according to claim 1 wherein the receptor compound is acetonitrile.

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— END —